

Amendment to the Claims:

The following listing of claims replaces all previous versions and listings of claims:

1. (WITHDRAWN-CURRENTLY AMENDED) In a computer system having a plurality of computer system-resources, a controller and resource management system and method for controlling and managing said plurality of computer system-resources, ~~said computer system comprising:~~

~~said controller and resource management system;~~

~~said plurality of computer system resources;~~

wherein said plurality of computer system-resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is ~~operatively and functionally~~ independent of said plurality of computer system-resources.

2. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 1 wherein said computer system is a wireless communicating device such as a cellphone.

3. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 1 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

4. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 1 wherein said computer system is a personal computer.

5. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management

system of claim 1 wherein said computer ~~system~~ is a communications server.

6. (WITHDRAWN-CURRENTLY AMENDED) In a computer ~~system~~ having a plurality of computer ~~system~~ resources, a controller and resource management system ~~and method~~ for controlling and managing said plurality of computer ~~system~~ resources, ~~said computer system comprising:~~

~~said controller and resource management system;~~

~~said plurality of computer system resources;~~

wherein said plurality of computer ~~system~~ resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is ~~operatively and~~ functionally independent of said plurality of computer ~~system~~ resources, and wherein said controller and resource management system is therein implemented in hardware or firmware.

7. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 6 wherein said computer ~~system~~ is a wireless communicating device such as a cellphone.

8. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 6 wherein said computer ~~system~~ is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

9. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 6 wherein said computer ~~system~~ is a personal computer.

10. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management

system of claim 6 wherein said computer system is a communications server.

11. (WITHDRAWN-CURRENTLY AMENDED) In a computer system having a plurality of computer system resources, a controller and resource management system and method for controlling and managing said plurality of computer system resources, said computer system comprising:

said controller and resource management system;

said plurality of computer system resources;

wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is operatively and functionally independent of said plurality of computer system resources, and wherein said controller and resource management system is therein implemented in hardware or firmware electrically isolated from said plurality of computer system resources.

12. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 11 wherein said computer system is a wireless communicating device such as a cellphone.

13. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 11 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

14. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 11 wherein said computer system is a personal computer.

15. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 11 wherein said computer ~~system~~ is a communications server.

16. (WITHDRAWN-CURRENTLY AMENDED) In a computer ~~system~~ having a plurality of computer ~~system~~-resources, a controller and resource management system ~~and method~~ for controlling and managing said plurality of computer ~~system~~-resources, ~~said computer system comprising:~~

~~said controller and resource management system;~~

~~said plurality of computer system resources;~~

wherein said plurality of computer ~~system~~-resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is ~~operatively and~~ functionally independent of said plurality of computer ~~system~~-resources, said controller and resource management system comprising ~~at least:~~

a ~~system~~-security function for notifying ~~and alerting~~ said plurality of computer ~~system~~-resources of said plurality of computer ~~system~~-events;

an event handler for assigning a type identifier label and security level identifier label to said plurality of computer ~~system~~-events, said event handler comprising:

a receiver and buffer for receiving said plurality of computer ~~system~~-events;

a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of computer ~~system~~-events and assigning a type identifier label to said plurality of computer ~~system~~-events;

a security identifier function coupled to said type identifier function for identifying the security level of said plurality of computer system-events and assigning a security level identifier label to said plurality of computer system-events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of computer system-events with their assigned said type identifier label and said security level identifier label to said system-security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of computer system events[[:]].

~~wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of computer system resources of said plurality of computer system events, wherein said plurality of computer system events are received into said receiver and buffer, said plurality of computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of computer system events, said plurality of computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of computer system events, said plurality of computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of computer system events, said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and further notifying and alerting said plurality of computer system resources of said type and said security level assigned to said plurality of computer system events.~~

17. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 16 wherein said computer system is a wireless communicating device such as a cellphone.

18. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 16 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

19. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 16 wherein said computer system is a personal computer.

20. (WITHDRAWN-CURRENTLY AMENDED) The controller and resource management system of claim 16 wherein said computer system is a communications server.

21. (WITHDRAWN) In a computer system having a plurality of computer system resources, a controller and resource management system and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system-events, said computer system comprising:

said controller and resource management system;

said plurality of computer system resources;

wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is operatively and functionally independent of said plurality of computer system resources, and wherein said controller and resource management system is therein implemented in hardware or firmware, said controller and resource management system comprising at least:

a system security function for notifying and alerting said plurality of computer system resources of said plurality of computer system events;

an event handler for assigning a type identifier label and security level identifier label to said plurality of computer system events, said event handler comprising;

a receiver and buffer for receiving said plurality of computer system events;

a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of computer system events and assigning a type identifier label to said plurality of computer system events;

a security identifier function coupled to said type identifier function for identifying the security level of said plurality of computer system events and assigning a security level identifier label to said plurality of computer system events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of computer system events with their assigned said type identifier label and said security level identifier label to said system security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of computer system events;

wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of computer system resources of said plurality of computer system events, wherein said plurality of computer system-events are received into said receiver and buffer, said plurality of computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of computer system events, said plurality of computer system-events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of computer system events, said plurality of computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of computer system events, said system security function storing said plurality of computer system

events with said type identifier label and said security level identifier label and further notifying and alerting said plurality of computer system resources of said type and said security level assigned to said plurality of computer system events.

22. (WITHDRAWN) The controller and resource management system of claim 21 wherein said computer system is a wireless communicating device such as a cellphone.

23. (WITHDRAWN) The controller and resource management system of claim 21 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

24. (WITHDRAWN) The controller and resource management system of claim 21 wherein said computer system is a personal computer.

25. (WITHDRAWN) The controller and resource management system of claim 21 wherein said computer system is a communications server.

26. (WITHDRAWN) In a computer system having a plurality of computer system resources, a controller and resource management system and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system events, said computer system comprising:

said controller and resource management system;

said plurality of computer system resources;

wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is operatively and functionally

independent of said plurality of computer system resources, and wherein said controller and resource management system is therein implemented in hardware or firmware electrically isolated from said plurality of computer system resources, said controller and resource management system comprising at least:

a system security function for notifying and alerting said plurality of computer system resources of said plurality of computer system events;

an event handler for assigning a type identifier label and security level label to said plurality of computer system events, said event handler comprising;

a receiver and buffer for receiving said plurality of computer system events;

a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of computer system events and assigning a type identifier label to said plurality of computer system events;

a security identifier function coupled to said type identifier function for identifying the security level of said plurality of computer system events and assigning a security level identifier label to said plurality of computer system events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of computer system events with their assigned said type identifier label and said security level identifier label to said system security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of computer system events;

wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of computer system resources of said plurality of computer system events, wherein said plurality of computer system events are received into said receiver and

buffer, said plurality of computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of computer system events, said plurality of computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of computer system events, said plurality of computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of computer system events, said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and further notifying and alerting said plurality of computer system resources of said type and said security level assigned to said plurality of computer system events.

27. (WITHDRAWN) The controller and resource management system of claim 26 wherein said computer system is a wireless communicating device such as a cellphone.

28. (WITHDRAWN) The controller and resource management system of claim 26 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

29. (WITHDRAWN) The controller and resource management system of claim 26 wherein said computer system is a personal computer.

30. (WITHDRAWN) The controller and resource management system of claim 26 wherein said computer system is a communications server.

31. (WITHDRAWN) In a computer system having a plurality of computer system resources, a controller and resource management system and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system events, said computer system comprising:

said controller and resource management system;

said plurality of computer system resources;

wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is operatively and functionally independent of said plurality of computer system resources, said controller and resource management system comprising at least:

an event handler for receiving said plurality of computer system events and further assigning a type identifier label and security level identifier label to said plurality of computer system events;

a system security function coupled to said event handler for notifying and alerting said plurality of computer system resources of said plurality of computer system events; said system security function operatively and functionally independent of said plurality of computer system resources;

a watchdog timer function for independently monitoring the health and operation of said controller and resource management system; said watchdog timer operatively and functionally independent of said plurality of computer system resources;

a plurality of bidirectional Input/Output (I/O) interfaces providing a means for direct coupling between a plurality of said controller and resource management systems, said direct coupling operatively and functionally independent of said plurality of computer system resources.

32. (WITHDRAWN) In a computer system having a plurality of computer system resources, a controller and resource management system and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system events, said computer system comprising:

said controller and resource management system;

said plurality of computer system resources;

wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is operatively and functionally independent of said plurality of computer system resources, said controller and resource management system comprising at least:

an event handler for receiving said plurality of computer system events and further assigning a type identifier label and security level identifier label to said plurality of computer system events;

a system security function coupled to said event handler for notifying and alerting said plurality of computer system resources of said plurality of computer system events; said system security function operatively and functionally independent of said plurality of computer system resources;

a watchdog timer function for independently monitoring the health and operation of said controller and resource management system; said watchdog timer operatively and functionally independent of said plurality of computer system resources;

a plurality of bidirectional Input/Output (I/O) interfaces providing a means for direct coupling between a plurality of said controller and resource management systems, said direct coupling operatively and functionally independent of said plurality of computer system resources;

wherein said event handler comprising at least:

an event handler for assigning a type identifier label and security level identifier label to said

plurality of computer system events, said event handler comprising;

a receiver and buffer for receiving said plurality of computer system events;

a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of computer system events and assigning a type identifier label to said plurality of computer system events;

a security identifier function coupled to said type identifier function for identifying the security level of said plurality of computer system events and assigning a security level identifier label to said plurality of computer system events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of computer system events with their assigned said type identifier label and said security level identifier label to said system security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of computer system events;

wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of computer system resources of said plurality of computer system events, wherein said plurality of computer system events are received into said receiver and buffer, said plurality of computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of computer system events, said plurality of computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of computer system events, said plurality of computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of computer system events, said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and notifying and

alerting said plurality of computer system resources of said type and said security level assigned to said plurality of computer system events, and wherein said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of controller and resource management systems of said type and said security level assigned to said plurality of computer system events, said system security function notifying and alerting said plurality of controller and resource management systems using said plurality of bidirectional Input/Output (I/O) interfaces.

33. (WITHDRAWN) The controller and resource management system of claim 32 wherein said computer system is a wireless communicating device such as a cellphone.

34. (WITHDRAWN) The controller and resource management system of claim 32 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

35. (WITHDRAWN) The controller and resource management system of claim 32 wherein said computer system is a personal computer.

36. (WITHDRAWN) The controller and resource management system of claim 32 wherein said computer system is a communications server.

37. (WITHDRAWN-CURRENTLY AMENDED) In a computer system having a plurality of computer system resources, a controller and resource management system and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system events, said computer system comprising:

~~said controller and resource management system;~~

~~said plurality of computer system resources;~~

~~wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and~~

~~wherein said controller and resource management system is operatively and functionally independent of said plurality of computer system resources, and wherein said controller and resource management system is therein implemented in hardware or firmware, said controller and resource management system comprising at least:~~

~~an event handler for receiving said plurality of computer system events and further assigning a type identifier label and security level identifier label to said plurality of computer system events;~~

~~a system security function coupled to said event handler for notifying and alerting said plurality of computer system resources of said plurality of computer system events; said system security function operatively and functionally independent of said plurality of computer system resources;~~

~~a watchdog timer function for independently monitoring the health and operation of said controller and resource management system; said watchdog timer operatively and functionally independent of said plurality of computer system resources;~~

~~a plurality of bidirectional Input/Output (I/O) input/output interfaces providing a means for direct coupling between a plurality of said controller and resource management systems, said direct coupling operatively and functionally independent of said plurality of computer system resources;~~

~~wherein said event handler comprising at least:~~

~~an event handler for assigning a type identifier label and security level identifier label to said plurality of computer system events, wherein said event handler comprising;~~

~~a receiver and buffer for receiving said plurality of computer system events;~~

a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of computer system-events and assigning a type identifier label to said plurality of computer system-events;

a security identifier function coupled to said type identifier function for identifying the security level of said plurality of computer system-events and assigning a security level identifier label to said plurality of computer system-events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of computer system-events with their assigned said type identifier label and said security level identifier label to said system-security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of computer system-events[[]].

~~wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of computer system resources of said plurality of computer system events, wherein said plurality of computer system events are received into said receiver and buffer, said plurality of computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of computer system events, said plurality of computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of computer system events, said plurality of computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of computer system events, said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of computer system resources of said type and said security level assigned to said plurality of computer system events, and wherein said system security function storing said plurality of computer system events with said type identifier label and said security level~~

~~identifier label and notifying and alerting said plurality of controllers and resource managements of said type and said security level assigned to said plurality of computer system events, said system security function notifying and alerting said plurality of controller and resource management systems using said plurality of bidirectional Input/Output (I/O) interfaces.~~

38. (WITHDRAWN-CURRENTLY AMENDED) ~~The controller and resource management system of claim 37 wherein said computer system is a wireless communicating device such as a cellphone.~~

39. (WITHDRAWN-CURRENTLY AMENDED) ~~The controller and resource management system of claim 37 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.~~

40. (WITHDRAWN-CURRENTLY AMENDED) ~~The controller and resource management system of claim 37 wherein said computer system is a personal computer.~~

41. (WITHDRAWN-CURRENTLY AMENDED) ~~The controller and resource management system of claim 37 wherein said computer system is a communications server.~~

42. (WITHDRAWN-CURRENTLY AMENDED) ~~In a computer system having a plurality of computer system resources, a system and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system events, said computer system comprising at least:~~

~~said controller and resource management system;~~

~~said plurality of computer system resources having at least one processor
communicablycommunicatively coupled to said controller and resource management system;~~

~~wherein and, such that said plurality of computer system resources are operatively dependent on~~

said ~~controller and resource management system~~, and

~~wherein~~such that said ~~controller and resource management system~~ is ~~operatively and functionally~~ independent of said plurality of computer ~~system resources~~, said ~~controller and resource management system~~ comprising at least:

an event handler for receiving said plurality of computer ~~system events~~ and further assigning a type identifier label and security level identifier label to said plurality of computer ~~system events~~;

a ~~system security function~~ coupled to said event handler for notifying ~~and alerting~~ said plurality of computer ~~system resources~~ of said plurality of computer ~~system events~~; and such that said ~~system security function~~ is ~~operatively and functionally~~ independent of said plurality of computer ~~system resources~~;

a watchdog timer function for independently monitoring the health and operation of said ~~controller and resource management system~~[[;]] such that said watchdog timer is ~~operatively and functionally~~ independent of said plurality of computer ~~system resources~~;

a plurality of ~~bidirectional Input/Output (I/O)~~input/output interfaces ~~providing a means~~ for direct coupling between a plurality of said ~~controller and resource management systems~~[[,]] such that said direct coupling is ~~operatively and functionally~~ independent of said plurality of computer ~~system resources~~.

43. (WITHDRAWN-CURRENTLY AMENDED) The ~~controller and resource management~~ system of claim 42 wherein said computer ~~system~~ is a wireless communicating device such as a cellphone.

44. (WITHDRAWN-CURRENTLY AMENDED) The ~~controller and resource management~~ system of claim 42 wherein said computer ~~system~~ is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

45. (WITHDRAWN-CURRENTLY AMENDED) The ~~controller and resource management~~ system of claim 42 wherein said computer system is a personal computer.

46. (WITHDRAWN-CURRENTLY AMENDED) The ~~controller and resource management~~ system of claim 42 wherein said computer system is a communications server.

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62. (CURRENTLY AMENDED) In a computer, ~~system~~ having a plurality of computer system resources including a processor and a computer memory, a controller and resource management system, ~~and method for controlling and managing said plurality of computer system resources, and handling a plurality of computer system events, said computer system comprising:~~

~~said controller and resource management system;~~

~~said plurality of computer system resources having at least one processor communicably coupled to said controller and resource management system and a plurality of computer system memories communicably and operatively coupled to said controller and resource management system;~~

~~wherein said plurality of computer system resources are operatively dependent on said controller and resource management system, and~~

~~wherein said controller and resource management system is operatively implemented in electronic hardware that is physically separate and functionally independent of said plurality of computer system resources~~processor, said controller and resource management system comprising at least:

~~an event handler for receiving said a plurality of computer system events and further assigning a type identifier label and security level identifier label to said plurality of computer system events;~~

~~a system security function coupled to said event handler for notifying and alerting said plurality of computer system resources of said plurality of computer system events; said system security~~

~~function operatively and functionally independent of said plurality of computer system resources;~~

a watchdog timer function for ~~independently monitoring the health and operation of said controller and resource management system; said watchdog timer operatively and functionally independent of said plurality of computer system resources;~~

~~a plurality of bidirectional Input/Output (I/O) interfaces providing a means for direct coupling between a plurality of said controller and resource management systems, said direct coupling operatively and functionally independent of said plurality of computer system resources;~~

a manager and scheduler function for managing and scheduling ~~the~~ a plurality of processes to be performed by said ~~plurality of computer system resources~~processor;

a priority handler function for evaluating and categorizing said plurality of processes to be performed by said ~~plurality of computer system resources~~processor;

a configuration and device driver function for configuring ~~and controlling~~ said plurality of computer system resources;

a plurality of computer system ~~bidirectional Input/Output (I/O)~~input/output interfaces for coupling said controller and resource management system to said plurality of computer system resources, including a computer input/output interface for communicatively coupling control messages to said processor;

a plurality of integral layer 2 media access controllers (MACS);

a plurality of ~~bidirectional memory buffers for providing buffering of data for~~coupled to said plurality of computer system ~~bidirectional Input/Output (I/O)~~input/output interfaces, including an application program interface (API) buffer for communicatively coupling control messages to said processor;

a memory controller ~~[[hub]]~~for communicatively coupling said controller and resource management system to said ~~plurality of computer system memories~~computer memory;

an ~~Input/Output (I/O)~~input/output controller ~~[[hub]]~~for coupling said controller and resource management system to said plurality of computer system ~~bidirectional Input/Output (I/O)~~input/output interfaces~~[[;]]~~.

~~wherein said event handler comprising at least:~~

~~an event handler for assigning a type identifier label and security level identifier label to said plurality of computer system events, said event handler comprising;~~

~~a receiver and buffer for receiving said plurality of computer system events;~~

~~a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of computer system events and assigning a type identifier label to said plurality of computer system events;~~

~~a security identifier function coupled to said type identifier function for identifying the security level of said plurality of computer system events and assigning a security level identifier label to said plurality of computer system events; and~~

~~a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of computer system events with their assigned said type identifier label and said security level identifier label to said system security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of computer system events;~~

~~wherein said method comprising: a method for receiving, identifying, routing, storing, notifying~~

and alerting said plurality of computer system resources of said plurality of computer system events, wherein said plurality of computer system events are received into said receiver and buffer, said plurality of computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of computer system events, said plurality of computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of computer system events, said plurality of computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of computer system events, said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of computer system resources of said type and said security level assigned to said plurality of computer system events, and wherein said system security function storing said plurality of computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of controller and resource management systems of said type and said security level assigned to said plurality of computer system events, said system security function notifying and alerting said plurality of controller and resource management systems using said plurality of bidirectional Input/Output (I/O) interfaces.

63. (CURRENTLY AMENDED) The controller and resource management system of claim 62 wherein said computer system is a wireless communicating device such as a cellphone.

64. (CURRENTLY AMENDED) The controller and resource management system of claim 62 wherein said computer system is a portable computer such as a hand-held personal digital assistant (PDA) or laptop personal computer.

65. (CURRENTLY AMENDED) The controller and resource management system of claim 62 wherein said computer system is a personal computer.

66. (CURRENTLY AMENDED) The controller and resource management system of claim 62

wherein said computer system is a communications server.

67. (CANCELLED)

68. (CURRENTLY AMENDED) ~~[[A]]~~The controller and resource management system as recited in claim 62 ~~wherein said controller and resource management system is therein implemented in hardware or firmware, and~~ wherein said controller and resource management system is electrically isolated from said plurality of computer system resources, including at least said processor.

69. (CURRENTLY AMENDED) In a personal computer, ~~system~~ having a plurality of personal computer system resources including a processor and a computer memory, a controller and resource management system, ~~and method for controlling and managing said plurality of personal computer system resources, and handling a plurality of personal computer system events, said personal computer system comprising:~~

~~said controller and resource management system;~~

~~said plurality of personal computer system resources comprising at least:~~

~~one processor communicably coupled to said controller and resource management system;~~

~~a plurality of personal computer system memories communicably and operatively coupled to said controller and resource management system;~~

~~user interfaces including at least one keyboard, at least one mouse, at least one audio interface and at least one video interface;~~

~~at least one disc storage resource;~~

at least one bidirectional serial Input/Output (I/O) interface;

networking connections including local area networks (LANs) and wide area networks (WANs);
having a plurality of integral layer 2 media access controllers (MACS);

wherein said plurality of personal computer system resources are operatively dependent on said controller and resource management system, and

wherein said controller and resource management system is operatively implemented in electronic hardware that is physically separate and functionally independent of said plurality of ~~personal computer system resources~~processor, said controller and resource management system comprising at least:

an event handler for receiving said a plurality of personal computer system events and further assigning a type identifier label and security level identifier label to said plurality of computer system events;

a system security function coupled to said event handler for notifying and alerting said plurality of personal computer system resources of said plurality of personal computer system events; said system security function operatively and functionally independent of said plurality of computer system resources;

a watchdog timer function for independently monitoring the health and operation of said controller and resource management system; said watchdog timer operatively and functionally independent of said plurality of computer system resources;

a plurality of bidirectional Input/Output (I/O) interfaces providing a means for direct coupling between a plurality of said controller and resource management systems, said direct coupling operatively and functionally independent of said plurality of personal computer system resources;
a manager and scheduler function for managing and scheduling the a plurality of processes to be

performed by said ~~plurality of computer system resources~~processor;

a priority handler function for evaluating and categorizing said plurality of processes to be performed by said ~~plurality of computer system resources~~processor;

a configuration and device driver function for configuring and ~~controlling~~ said plurality of personal computer ~~system resources~~;

a plurality of personal computer ~~system bidirectional Input/Output (I/O)~~input/output interfaces for coupling said controller and resource management system to said plurality of personal computer ~~system resources~~, including a personal computer input/output interface for communicatively coupling control messages to said processor;

a plurality of ~~bidirectional memory buffers~~ for ~~providing buffering of data for~~coupled to said plurality of personal computer ~~system bidirectional Input/Output (I/O)~~input/output interfaces, including an application program interface (API) buffer for communicatively coupling control messages to said processor;

a memory controller ~~[[hub]]~~for communicatively coupling said controller and resource management system to said ~~plurality of computer system memories~~computer memory;

an ~~Input/Output (I/O)~~input/output controller~~[[hub]]~~ for coupling said controller and resource management system to said plurality of personal computer ~~system bidirectional Input/Output (I/O)~~input/output interfaces~~[[;]]~~.

~~wherein said event handler comprising at least:~~

~~an event handler for assigning a type identifier label and security level identifier label to said plurality of personal computer system events, said event handler comprising;~~

a receiver and buffer for receiving said plurality of personal computer system events;

a type identifier function coupled to said receiver and buffer for identifying the type of said plurality of personal computer system events and assigning a type identifier label to said plurality of personal computer system events;

a security identifier function coupled to said type identifier function for identifying the security level of said plurality of personal computer system events and assigning a security level identifier label to said plurality of personal computer system events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of personal computer system events with their assigned said type identifier label and said security level identifier label to said system security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of personal computer system events;

wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of personal computer system resources of said plurality of personal computer system events, wherein said plurality of personal computer system events are received into said receiver and buffer, said plurality of personal computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of personal computer system events, said plurality of personal computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of personal computer system events, said plurality of personal computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of personal computer system events, said system security function storing said plurality of personal computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of personal computer system resources of said type and said security level assigned

~~to said plurality of personal computer system events, and wherein said system security function storing said plurality of personal computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of controller and resource management systems of said type and said security level assigned to said plurality of personal computer system events, said system security function notifying and alerting said plurality of controller and resource management systems using said plurality of bidirectional Input/Output (I/O) interfaces.~~

70. (CURRENTLY AMENDED) ~~In a communications computer system having a plurality of communications computer system resources, a controller and resource management system and~~A method for controlling and managing ~~[[said]]~~a plurality of communications computer system resources, including a processor, and handling a plurality of communications computer system events such that said method is functionally independent of said processor, said communications computer system~~method~~ comprising:

~~said controller and resource management system;~~

~~said plurality of communications computer system resources comprising at least:~~

~~one processor communicably coupled to said controller and resource management system;~~

~~a plurality of communications computer system memories communicably and operatively coupled to said controller and resource management system;~~

~~a plurality of bidirectional communications Input/Output (I/O) interfaces;~~

~~wherein said plurality of communications computer system resources are operatively dependent on said controller and resource management system, and~~

~~wherein said controller and resource management system is operatively and functionally~~

~~independent of said plurality of communications computer system resources, said controller and resource management system comprising at least:~~

~~an event handler for receiving said plurality of communications computer system events and further assigning a type identifier label and security level identifier label to said plurality of communications computer system events;~~

~~providing a system security function coupled to said event handler for filtering and verifying said plurality of computer events, and further notifying and alerting said plurality of communications computer system resources of said plurality of communications computer system events[[;]] such that said system security function operatively and is functionally independent of said processorplurality of communications computer system resources, and such that said plurality of computer events are verified prior to arrival at said processor;~~

~~a watchdog timer function for independently monitoring the health and operation of said controller and resource management system; said watchdog timer operatively and functionally independent of said plurality of communications computer system resources;~~

~~a plurality of bidirectional Input/Output (I/O) interfaces providing a means for direct coupling between a plurality of said controller and resource management systems, said direct coupling operatively and functionally independent of said plurality of communications computer system resources;~~

~~a manager and scheduler function for managing and scheduling the plurality of processes to be performed by said plurality of communications computer system resources~~processor;

~~a priority handler function for evaluating and categorizing~~prioritizing said plurality of processes to be performed by said ~~plurality of communications computer system resources~~processor;

~~a configuration and device driver function for configuring and controlling said plurality of~~

communications-computer system-resources[[]],

a plurality of ~~communications computer system bidirectional Input/Output (I/O) interfaces for coupling said controller and resource management system to said plurality of communications computer system resources;~~

a plurality of integral layer 2 media access controllers (MACS);

a plurality of bidirectional memory buffers for providing buffing of data for said plurality of ~~communications computer system bidirectional Input/Output (I/O) interfaces;~~

a memory controller hub for coupling said controller and resource management system to said ~~plurality of communications computer system memories;~~

an ~~Input/Output (I/O) controller hub for coupling said controller and resource management system to said plurality of communications computer system bidirectional Input/Output (I/O) interfaces;~~

wherein said event handler comprising at least:

an event handler for assigning a type identifier label and security level identifier label to said ~~plurality of communications computer system events, said event handler comprising;~~

a receiver and buffer for receiving said ~~plurality of communications computer system events;~~

a type identifier function coupled to said receiver and buffer for identifying the type of said ~~plurality of communications computer system events and assigning a type identifier label to said plurality of communications computer system events;~~

a security identifier function coupled to said ~~type identifier function for identifying the security~~

level of said plurality of communications computer system events and assigning a security level identifier label to said plurality of communications computer system events; and

a routing function coupled to said security identifier function and further coupled to said system security function for routing said plurality of communications computer system events with their assigned said type identifier label and said security level identifier label to said system security function based on said event handlers determination of said type identifier and said security level identifier for received said plurality of communications computer system events;

wherein said method comprising: a method for receiving, identifying, routing, storing, notifying and alerting said plurality of communications computer system resources of said plurality of communications computer system events, wherein said plurality of communications computer system events are received into said receiver and buffer, said plurality of communications computer system events are sent to said type identifier function for identifying and labeling the type of said plurality of communications computer system events, said plurality of communications computer system events with said type identifier label are then sent to said security identifier function for identifying and labeling the security level of said plurality of communications computer system events, said plurality of communications computer system events with said type identifier label and said security level identifier label are routed by said routing function to said system security function based on said type identifier label and said security level identifier label assigned for said plurality of communications computer system events, said system security function storing said plurality of communications computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of communications computer system resources of said type and said security level assigned to said plurality of communications computer system events, and wherein said system security function storing said plurality of communications computer system events with said type identifier label and said security level identifier label and notifying and alerting said plurality of controller and resource management systems of said type and said security level assigned to said plurality of communications computer system events, said system security function notifying and alerting said plurality of controller and resource management systems

using said plurality of bidirectional Input/Output (I/O) interfaces.

71. (NEW) In a computer, having a plurality of computer resources including a processor and a computer memory, a system comprising:

- (a) a plurality of input/outputs which couple said system to said plurality of computer resources such that said processor is coupled to said computer memory through said system, and such that said processor is coupled to computer events generated by said plurality of computer resources through said system;
- (b) input/output controller logic which operatively controls communications between said system and said plurality of computer resources, including said processor and said computer events;
- (c) memory controller logic which operatively controls data communications between said computer memory and said system;
- (d) event priority and scheduler logic which inputs said computer memory data via said memory controller, and inputs said computer events via said input/output controller, and responsive to said inputs will output data comprising: prioritized and scheduled computer events, prioritized and scheduled computer memory data;
- (e) security filter logic which inputs said prioritized and scheduled data, and responsive to said inputs will output data comprising: filtered and verified computer events, filtered and verified computer memory data, and responsive to said output will communicatively couple said output to said processor such that prioritized, and scheduled, and verified computer events and computer memory data is coupled to said processor through said system; and, wherein said system is embodied in electronic hardware which is physically separate from said processor such that said system is functionally independent of said processor and said processor's executable instructions, and such that said system does not require processor executable instructions to operate.

72. (NEW) The system of claim 71 wherein said system is electrically isolated from said processor.

73. (NEW) A method of controlling the operation of at least one processor in a computer, comprising:

- (a) decoupling computer events from said processor;
- (b) receiving, intercepting, and redirecting said computer events;
- (c) decoupling computer memory data from said processor;
- (d) reading, intercepting, and redirecting said computer memory data;
- (e) prioritizing said redirected computer events and said redirected computer memory data;
- (f) scheduling said prioritized computer events and said prioritized computer memory data;
- (g) communicatively coupling said prioritized and scheduled computer events and said prioritized and scheduled computer memory data to said processor via processor interrupts or application program messages such that the original decoupled and intercepted computer events and original decoupled and intercepted computer memory data is prioritized, and is scheduled prior to arrival at said processor.

74. (NEW) A method of providing data security for at least one processor in a computer, comprising:

- (a) decoupling computer events from said processor;
- (b) receiving, intercepting, and redirecting said computer events;
- (c) decoupling computer memory data from said processor;
- (d) reading, intercepting, and redirecting said computer memory data;
- (e) filtering and verifying said redirected computer events and said redirected computer memory data;
- (f) communicatively coupling said verified computer events and said verified computer memory data to said processor such that the original decoupled and intercepted computer events and the original decoupled and intercepted computer memory data is verified prior to arrival at said processor.